

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:

Source:

Date Processed by STIC:

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS. PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 703-308-4212; FAX: 703-308-4221 Effective 12/13/03: TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker/chkr41note.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom. Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (http://www.uspto.gov/ebc/efs/downloads/documents.htm, EFS Submission User Manual - ePAVE)
- 2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
- 3. Hand Carry directly to (EFFECTIVE 12/01/03): U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
- 4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 103-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 10/08/03

Raw Sequence Listing Error Summary

	
ERROR DETECTED	suggested correction serial number: 19650,365
attn: new rules cases:	PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE
Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
2Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.
3Misaligned Amino Numbering	The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers, use space characters, instead.
4Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
5Variable Length	Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
6Patentin 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
7Skipped Sequences (OLD RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped
	Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences
8Skipped Sequences (NEW RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000
9Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
0Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
1Use of <220>	Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 00701/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of Patentln version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
3 Misuse of n/Xaa	"n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid



IFWO

RAW SEQUENCE LISTING DATE: 11/21/2003 PATENT APPLICATION: US/10/650,365 TIME: 11:00:40

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3 <110> APPLICANT: Wei, Guangwen
         Guo, Rongbing
 t,
         Zhang, Renhuai
 7 <120> TITLE OF INVENTION: Recombinant Super-Compound Interferon
 9 <130> FILE REFERENCE: 792-A-PCT-US
11 <140> CURRENT APPLICATION NUMBER: 10/650,365
12 <141> CURRENT FILING DATE: 2003-08-28
14 <150> PRIOR APPLICATION NUMBER: PCT/CN02/00128
15 <151> PRIOR FILING DATE: 2002-02-28
                                                                  Does Not Comply
                                         Invalidationse, mary

Flast see ithm summary

Plast see ithm Summary

Shelt

tg ggt aac cgt car

eu Gly Asn

)
17 <150> PRIOR APPLICATION NUMBER: CN 01104367.9
                                                                  Corrected Diskett Ne ded
18 <151> PRIOR FILING DATE: 2001-02-28
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39 atc ctg ctg gct cag atg cgt cgt atc tcc ccg ttc tcc tgc ctg aaa
                                                                             96
40 Ile Leu Leu Ala Gln Met Arg Arg Ile Ser Pro Phe Ser Cys Leu Lys
                                     25
41
               20
43 gac egt cae gae the ggt the eeg cag gaa gaa the gae ggt aac cag
                                                                            144
44 Asp Arg His Asp Phe Gly Phe Pro Gln Glu Glu Phe Asp Gly Asn Gln
47 ttc cag aaa gct cag gct atc tcc gtt ctg cac gaa atg atc cag cag
                                                                            192
48 Phe Gln Lys Ala Gln Ala Tle Ser Val Leu His Glu Met Tle Gln Gln
       50
                            55
51 acc ttc aac etg ttc tcc acc aaa gac tcc tcc gct tgg gac gaa
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52 Thr Phe Asn Leu Phe Ser Thr Lys Asp Ser Ser Ala Ala Trp Asp Glu
                       70
                                             75
55 tcc ctg ctg gaa aaa ttc tac acc gaa ctg tac cag cag ctg aac gac
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56 Ser Leu Leu Glu Lys Phe Tyr Thr Glu Leu Tyr Gln Gln Leu Asn Asp
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                                         90
59 ctg gaa got tgc gtt atc cag gaa gtt ggt gtt gaa gaa acc ccg ctg
                                                                            336
60 Leu Glu Ala Cys Val Ile Gln Glu Val Gly Val Glu Glu Thr Pro Leu
61
               100
                                    105
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63 atg aac gtt gac tee atc etg get gtt aaa aaa tac tte eag egt atc
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RAW SEQUENCE LISTING DATE: 11/21/2003 PATENT APPLICATION: US/10/650,365 TIME: 11:00:40 Input Set : A:\sequence listing.ST25.txt Output Set: N:\CRF4\11212003\J650365.raw 64 Met Asn Val Asp Scr Ile Leu Ala Val Lys Lys Tyr Phe Gln Arg Ile 120 67 acc etg tac etg acc gaa aaa aaa tac tee eeg tge get tgg gaa gtt 432 68 Thr Leu Tyr Leu Thr Glu Lys Lys Tyr Ser Pro Cys Ala Trp Glu Val 135 71 gtt egt get gaa ate atg egt tee tte tee etg tee ace aac etg eag 480 72 Val Arg Ala Glu Ile Met Arg Ser Phe Ser Leu Ser Thr Asn Leu Gln 73 145 150 Trualid response to item summer The Gly A-75 gaa cgt ctg cgt cgt aaa gaa taa 76 Glu Arg Leu Arg Arg Lys Glu 165 80 <210> SEQ ID NO: 2 81 <211> LENGTH: 167 82 <212> TYPE: PRT/ 83 <213> ORGANISM: human synthesi 85 <400> SEQUENCE: 2 87 Met Cys Asp Leu Pro Gln Thr His Scr Leu Gly Asn Arg Arg Ala Leu 10 91 Ile Leu Leu Ala Gln Met Arg Arg Ile Ser Pro Phe Ser Cys Leu Lys 20 25 95 Asp Arg His Asp Phe Gly Phe Pro Gln Glu Glu Phe Asp Gly Asn Gln 35 40 99 Phe Gln Lys Ala Gln Ala Ile Ser Val Leu His Glu Met Ile Gln Gln 50 55 103 Thr Phc Asn Leu Phe Ser Thr Lys Asp Ser Ser Ala Ala Trp Asp Glu 70 75 107 Ser Leu Leu Glu Lys Phe Tyr Thr Glu Leu Tyr Gln Gln Leu Asn Asp 85 111 Leu Glu Ala Cys Val Ile Gln Glu Val Gly Val Glu Glu Thr Pro Leu 100 105 115 Met Asn Val Asp Ser Ile Leu Ala Val Lys Lys Tyr Phe Gln Arg Ile 116 115 120 119 Thr Leu Tyr Leu Thr Glu Lys Lys Tyr Ser Pro Cys Ala Trp Glu Val 135 140 123 Val Arg Ala Glu Ile Met Arg Ser Phe Ser Leu Ser Thr Asn Leu Gln 124 145 150 155 127 Glu Arg Leu Arg Arg Lys Glu)-Invalid response 128 131 <210> SEQ 1D NO: 3 132 <211> LENGTH: 360 133 <212> TYPE: DNA 134 <213> ORGANISM: (human synthesis

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144 1

141 <400> SEQUENCE: 3

139 <222> LOCATION: (1)..(360)

48

RAW SEQUENCE LISTING DATE: 11/21/2003 PATENT APPLICATION: US/10/650,365 TIME: 11:00:40

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	att																	96
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148		4:		20					25					30				
100	gac	cgt	cac	gac	LLC	ggc	דננ	ccg	caa	gaa	gag	ttc	gat	ggc	aac	caa		144
	Asp	Arg		Asp	Phe	GIY	Phe		Gin	Glu	Glu	Phe		GLy	Asn	GIn		
152			35					40					45					
	ttc																	192
	Phe		Lys	Ата	GIN	Ата		Ser	Val.	Leu	His		Met	He	Gln	GIn		
156		50					55					60						
	acc																	240
	Thr	Pne	Asn	Leu	Phe		Thr	ГÀЗ	Asp	Ser		Ala	Ala	Trp	Asp			
	65					70					75					80		
	agc																2	288
	Ser	Leu	Leu	Glu		Pne	Tyr	Thr	Glu		Tyr	GIn	GIn	Leu		Asp		
1.64					85					90					95		_	
	ctg																•	336
	Leu	GIU	Ala		vaı	шe	GIN	GIU		GLY	vaı	Glu	GLu		Pro	Leu		
168				100			_4		105					110				
	atg		-	-			_											360
	Met	Asn		Asp	Ser	11e	Lieu											
172		0 × CI	115) NO	. 1			120										
176	<21	U > 51	zνi⊂ωr ΣÖ II	J NO:	; 4 > 0								4					
177	×21.	3~ 血/ T~ でt	ADE • PING I I	יים ה יים מ					_	^	0	err	10 M					
178	<21: <21: <21: <40:	35 DE	CANI	CM • f	huma	an et	int he	seie	<u> </u>	SM	//	`						
180	<400	0> SE	COUEN	JCE:	\ <u>\</u>		7110110		ノ゛									
182	Met	Cvs	Asp	Leu	Pro	Gln	Thr	His	Ser	Leu	Glv	Asn	Ara	Ara	Ala	Len		
183		-1-			5				552	10	0-1		9	9	15	170 0		
186	Ile	Leu	Leu	Ala	Gln	Met	Ara	Ara	Ile	Ser	Pro	Phe	Ser	Cvs		Lvs		
187				20			,	.,	25					30		-1-		
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202	Ser	Leu	Leu	Glu	Lys	Phe	Tyr	Thr	Glu	Leu	Tyr	Gln	Gln	Leu	Asn	Asp		
203					85					90	-				95	-		
206	Leu	Glu	Ala	Cys	Val	Ile	Gln	Glu	Val	G] y	Val	Glu	Glu	Thr	Pro	Leu		
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210	Met	Asn	Val	Asp	Ser	Ile	Leu	Ala										
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214		15 51	0 10	NO:	5													
215	<210)	~															
~	<210 <211				8				_			_	15.1	_				
	<211 <212	l> LE 2> TY	ENGTH		08					-64	hn I	41	NON					
217	<211 <212 <213	l> LE 2> TY 3> OF	ENGTH PE: RGANI		chem	nical	syr	thes	si _s	-SK	}nl	er	NON					
217 220	<211 <212 <213 <220	l> Le 2> Ty 3> Of 0> Fe	CNGTH PE: RGANI CATUR	I: 10 DNA SM:(RE:	chem	nical	syr	thes	is	-SK	}nl	er	NON					
217 220 221	<211 <212 <213 <220 <221	l > Le 2 > TY 3 > OF 0 > F'E l > NA	ENGTH PE: RGANI EATUR ME/K	DNA DNA SM: (RE: (EY:	chem CDS			thes	sign	-SK	}nl	er	NON	_				
217 220 221	<211 <212 <213 <220	l > Le 2 > TY 3 > OF 0 > F'E l > NA	ENGTH PE: RGANI EATUR ME/K	DNA DNA SM: (RE: (EY:	chem CDS			thes	ijo	-SK)ml	.er	NON					

DATE: 11/21/2003

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TIME: 11:00:40
                PATENT APPLICATION: US/10/650,365
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                                                                          96
230 Ile Leu Leu Ala Gln Met Arg Arg Ile Ser Pro Phe Ser Cys Leu Lys
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234 Asp Arg His Asp
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RAW SEQUENCE LISTING

RAW SEQUENCE LISTING		DATE:	11/21/2003
PATENT APPLICATION:	US/10/650,365	TIME:	11:00:40

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VERIFICATION SUMMARYDATE: 11/21/2003PATENT APPLICATION: US/10/650,365TIME: 11:00:41